CLAIMS:

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- 1. A metal halide lamp comprising a substantially cylindrical discharge vessel (3) having an internal diameter Di < 2.0 mm and filled with an ionizable filling, wherein two electrodes are present at a mutual distance EA for maintaining a discharge in the discharge vessel, wherein the filling comprises an inert gas such as Xe having a pressure at room temperature between 5 and 25 bar, and an ionizable salt, characterized in that said ionizable salt is selected from the group comprising PrI₃, NdI₃ and LuI₃.
- 2. A lamp according to claim 1, wherein said ionizable salt further comprises NaI, and wherein the molar ratio NaI/(PrI₃ + NdI₃ + LuI₃) lies between 1.0 and 10.3.
- 3. A lamp according to claim 2, wherein the molar ratio NaI/PrI₃ lies between 2.3 and 10.3, preferably between 3.0 and 5.7, and more preferably is approximately 3.5.
- 4. A lamp according to any of the preceding claims 1 3, wherein the amount of
 15 PrI₃ in the discharge vessel is between 10 and 335 μmol/cm³, preferably between 25 and 160 μmol/cm³, more preferably approximately 50 μmol/cm³.
 - 5. A lamp according to claim 2, wherein the molar ratio NaI/NdI₃ lies between 3.0 and 6.7, preferably between 3.6 and 4.8, and more preferably is approximately 4.2.
 - 6. A lamp according to any of the preceding claims 1 5, wherein the amount of NdI₃ in the discharge vessel is between 8 and 301 μ mol/cm³, preferably between 30 and 167 μ mol/cm³, more preferably approximately 45 μ mol/cm³.
- 7. A lamp according to claim 2, wherein the molar ratio NaI/LuI₃ lies between 1.0 and 3.2, preferably between 1.2 and 1.8, and more preferably is approximately 1.4.

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8. A lamp according to any of the preceding claims 1 - 7, wherein the amount of LuI₃ in the discharge vessel is between 15 and 414 μ mol/cm³, preferably between 27 and 230 μ mol/cm³, more preferably approximately 69 μ mol/cm³.

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- 5 9. A lamp according to any of the preceding claims 1 9, wherein Di < 1.5 mm.
 - 10. A lamp according to any of the preceding claims 1 10, wherein EA lies between 3 mm and 7 mm.
- 10 11. A lamp according to any of the preceding claims 1 11, wherein the discharge vessel has a ceramic wall.
 - 12. A lamp according to any of the preceding claims 1 12, wherein the discharge vessel is surrounded by a gas-filled outer bulb.

13. A lamp according to any of the preceding claims 1 - 13, wherein the lamp power lies between 20 W and 40 W.

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